

10/539534

JC05 Rec'd PCT/PTO 17 NOV 2005

SEQUENCE LISTING

<110> Umeda, Kazuaki
Matsui, Takeshi
Nakayama, Mayumi

<120> HIGHLY EFFICIENT GENE TARGETING VECTORS
AND METHODS FOR GENE TARGETING IN EPITHELIAL CELL LINES

<130> 082368-004800US

<150> PCT/JP03/16549
<151> 2003-12-24

<150> JP 2003-076877
<151> 2003-03-20

<150> JP 2002-371621
<151> 2002-12-24

<160> 1

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 7046
<212> DNA
<213> Mus musculus

<400> 1
cgccctgagtt gcccgcgacg gctctgcccc ccgacggcac gtctctcgcc gggcgcggt 60
tccggggaaag ttacgtgcgg gagcaggcgt tggaggagac gcccgggggt gtagggggaca 120
gccgggaggcc cgggtactgc ggagcggcga gccggcggag ggccggggag gccgagcagg 180
cgccggggtg tgccccggc agaagccccc gcggggcggga cgcttcccg acttttgtcc 240
cacttgaatc ccctccccgt gggccggggc tttccggcct ccccccgcggc tgccccgctc 300
gtcccccggga gatgtttatg cggacgggtgg cgtgaggagc gggcgggccg gcggcgccga 360
gtttcgggtc cgaggagctt cgcgcggcgc ggagagagac aagatgtccg ccagggccgc 420
ggccgctaag agcacaccaa tggaggaaac agctatatgg gaacagcaca cagtgacgct 480
tcacagggtc cctgggtttg gatttggaat tgcaatctct ggtgaaagag ataatcctca 540
ttttcagagt ggggaaacct ccatagtgtat ttctgtatgtt taaaaggag ggcagactga 600
aggacagcta caggaaaatg accgagttgc aatgttaac ggagttcaa tggataaacgt 660
tgaacatgtc tttgctgttc agcagctaag gaagagtggg aaaaacgcaa aaattactat 720
ccgaaggaag aagaaagtcc agatccctgt aagtccacca gatcctgagc cgggtgtctga 780
taatgaagac gatgtttatg acgaagaagt gcatgaccca agagctggcc gcgggtgttt 840
agcgaacaga aggagcgaga agagctggc aagggatagg atgtcaagca gggagagggag 900
cctgtccct ctgcctggaca ggcgggtccgt ggcctccagt cagcccgcaa agcccaccaa 960
ggtcacactg gtgaagtctc ggaaaaatga agaatatggt cttcgaccgg ccagccacat 1020
atttgtaaag gaaatttcac aagatagtt ggcagcaaga gatggtgaca ttcaagaagg 1080
ggatgttgc ttgaagataa atggtactgt gacagaaaat atgtcattga cagatgcaaa 1140
aacactgtata gaaagggtcta aaggcaaggta aaaaatggta gtgcaaagag atgagcgggc 1200
taccttactg aacgtccctg acctttcsga tagtatccat tctgctaattg cctcgaaaaag 1260
agatgacatt tcagaaattc agtcaactgc gtcagaccat tcaggtcgct cgcacatgac 1320
gccaccccgcc cgcagccagt cacatctcc tgaccaacgt tcagagccct ccgatcattc 1380
cacgcagtct ccacagcagc ccagcaatgg cagtcctccgg agcagagagg aagagcgaat 1440
gtctaaacct gggccatct caactccgtt aaaaatgtta gacgatcatc cacccaaagc 1500
agtggaaagaa gttacagttg agaaaaatga gaagcagacg cccactttc cagaaccgaa 1560
acctgtgtat gctcaagttg gacaaccaga tgtggattt cccgtcagcc cttctgtatgg 1620
tgctctgcct aattcagctc atgaagacgg gatacttagg cccagcatga aactggtaaa 1680
attcagaaaa ggagatagtg tgggtttgcg actagctggt ggaaatgtatg tcgaaatattt 1740

